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**Title:** **JP4152284A2: BOW BEARING MEASUREMENT DEVICE**

**Country:** **JP Japan**

**Kind:** **A**

**Inventor:** **SEKINE CHOGO;**

**Assignee:** **JAPAN RADIO CO LTD**  
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**Published / Filed:** **May 26, 1992 / Oct. 17, 1990**

**Application Number:** **JP1990000277969**

**IPC Code:** **G01S 3/52; G01S 5/14;**

**Priority Number:** **Oct. 17, 1990 JP1990000277969**

**Abstract:**

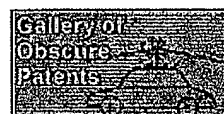
**PURPOSE:** To improve a ship's bow bearing measurement device including the accuracy and durability thereof by obtaining a ship's bow bearing from the bearing of a GPS (Global Positioning System) satellite relative to the bow bearing, and GPS bearing obtainable from a GPS receiver.

**CONSTITUTION:** The change-over period of a selected wave generator 44 is pertinently selected, and an aerial selector 12 is so controlled as to energize and turn eight elements of an aerial 10 sequentially clockwise from a ship's bow side. As a result, a relative distance between a GPS satellite and each element of the aerial 10 sequentially changes, and the phase displacement  $\Delta\phi$  of a wave signal received from the GPS satellite correspondingly changes in a stepped form, when the camera bearing of the GPS satellite relative to the earth agrees to the bow bearing. The change causes the fluctuation of output from a phase detector 34. This output is sent to the second BPF 40. Another detector 42 takes out a phase difference between the output of a signal generator 44 and the BPF 40, and a signal corresponding to the difference is introduced to one of input terminals of a bow bearing computing element 46. The bearing signal of a measurement GPS direction finder 48 is inputted to the other terminal of the computing element 46. This computing element 46 calculates the output of the detector 42 for subtraction, thereby obtaining a ship's bow bearing.

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**Family:** [Show 5 known family members](#)

**Other Abstract Info:** **None**



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